



Ford Chemical LABORATORY, INC.

Bacteriological and Chemical Analysis

40 WEST LOUISE AVENUE SALT LAKE CITY, UTAH 84115 PHONE 485-5761

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CERTIFICATE OF ANALYSIS 81-004695

DIEGENYEN MAY 21 10

DOWNEY #1 MINE DOWNEY #2 MINE DELORES RIVER MIDDLE CROSSING

DIVISION OF OIL, GAS & MINING

OIL, GAS & MINING		========	
Conductivity umhos/cm	2,270	2,050	3,650
Copper as Cu mg/1	.010	.020	.010
Cyanide as Cn mg/1	.005	.002	.004
Fluoride as F ms/1	.36	.27	.33
Hardness as CaCO3 mg/1	510	450	430
Iron as Fe (Total) ms/l	177.000	4.100	1.550
Lead as Pb ms/1	.001	.004	.009
MPN Fecal Coliform MPN/100 ml			33
MPN Total Coliform MPN/100 ml			170
Masnesium as Ms ms/1	48.00	45.60	45.60
Manganese as Mn mg/l	.020	.230	.310
Mercury as Ha ma/l	<.00020	<.00020	c.00020
Nickel as Ni ms/l	<.001	<.001	<.001
Nitrate as NO3-N mg/1	1.23	1.00	1.32
Nitrite as NO2-N ms/1	.03	.04	02
Phosphate PO4-P Ortho mg/1	.020	. <.001	C.001
Potassium as K ms/1	11.30	12.80	35.00

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DATE: 05/15/81

CERTIFICATE OF ANALYSIS

BUREAU OF LAND MANAGEMENT PO BOX 970 MOAB, UT 84532

81-004695

SAMPLE: WATERS RECEIVED 4-14-81 UNDER CONTRACT UT-060-CT9-014.

DOWNEY

DOWNEY

DELORES

	#1 MINE	#2 MINE	RIVER MIDDLE CROSSING
=======================================		=======	========
Alkalinity as CaCO3 mg/l	144.00	160.00	142.00
Aluminum as Al mg/1	.150	1.010	.620
Arsenic as As mg/l	.002	.003	.002
BOD 5 Day mg/l	74.0	22.0	26.0
Barium as Ba ms/1	.090	.080	.100
Bicarbonate as HCO3 ms/1	175.68	195.20	173.20
Boron as B mg/1	.180	.120	.150
Cadmium as Cd mg/1	<.001	.005	<.001
Calcium as Ca ms/1	124.00	104.00	96.00
Carbonate as CO3 mg/1	<.01	<.01	<.01
Chloride as Cl ms/1	380.00	360.00	1,080.00
Chromium as Cr mg/1	<.001	<.001	<.001
Cobalt as Co ms/l	.012	.005	<.001



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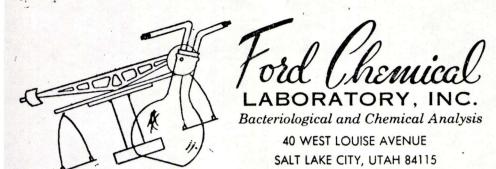
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	DOWNEY #1 MINE	DOWNEY #2 MINE	DELORES RIVER MIDDLE CROSSING
	=======	=======	
Selenium as Se ms/l	.010	.007	.001
Silica as SiO2 Diss. Mg/l	6.05	5.20	4.95
Silver as As ma/l	.002	<.001	.007
Sodium as Na ms/1	320.00	295.00	705.00
Sulfate as SO4 ms/1	508	410	320
Suspended Solids mg/l	13,396	258	302
Total Dissolved Solids mm/l	1,485	1,320	2,375
Zinc as Zn ms/1	.003	.020	.020
PH Units	7.60	7.60	8.10

FORD CHEMICAL LABORATORY, INC.



DATE: 05/15/81

CERTIFICATE OF ANALYSIS

81-004695-01

FORD CHEMICAL LABORATORIES

BALANCE SHEET FOR SAMPLE: (1) DOWNEY #1 MINE

CATIONS	ma/I	me4/I	
Calcium as Ca ms/1	124.000	6.188	
Magnesium as Mg mg/1	48.000	3.948	
Sodium as Na me/1	320.000	13.920	
Potassium as K mg/l	11.300	.289	
ANIONS	m9/1	mes/1	
Carbonate as CO3 mg/1	.000	.000	
Bicarbonate as HCO3 ms/1	175.680	2.881	
Sulfate as SO4 mg/1	508.000	10.577	
Chloride as Cl mg/1	380.000	10.720	
Nitrate as NO3-N mg/1	1.230	.020	

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BALANCE INFORMATION

CATIONS: 24.345
ANIONS: 24.198
TOTAL: 48.543
DIFFERENCE: .147
SIGMA: .003

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DATE: 05/15/81

CERTIFICATE OF ANALYSIS

81-004695-02

FORD CHEMICAL LABORATORIES

BALANCE SHEET FOR SAMPLE: (2) DOWNEY #2 MINE

CATIONS	m9/1	mea/l
Calcium as Ca ms/1	104.000	5.190
Magnesium as Mg mg/1	45.600	3.751
Sodium as Na ms/1	295.000	12.833
Potassium as K mg/l	12.800	.327
ANIONS	ms/1	me9/1
Carbonate as CO3 mg/1	.000	.000
Bicarbonate as HCO3 ms/1	195.200	3.201
Sulfate as SO4 ms/l	410.000	8.536
Chloride as Cl mg/1	360.000	10.156
Nitrate as NO3-N mg/1	1.000	.016

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BALANCE INFORMATION

CATIONS: 22.101
ANIONS: 21.909
TOTAL: 44.010
DIFFERENCE: .192
SIGMA: .004